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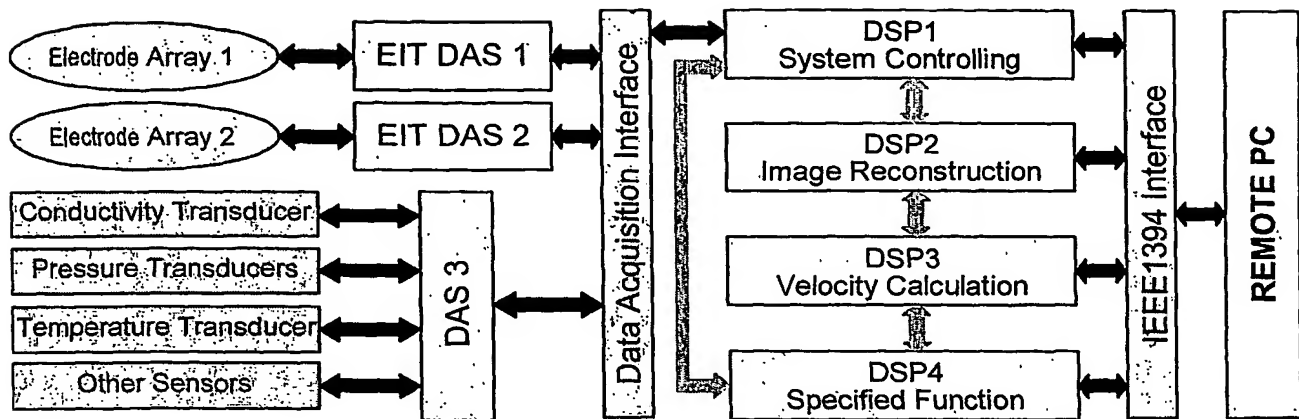


FIGURE 1

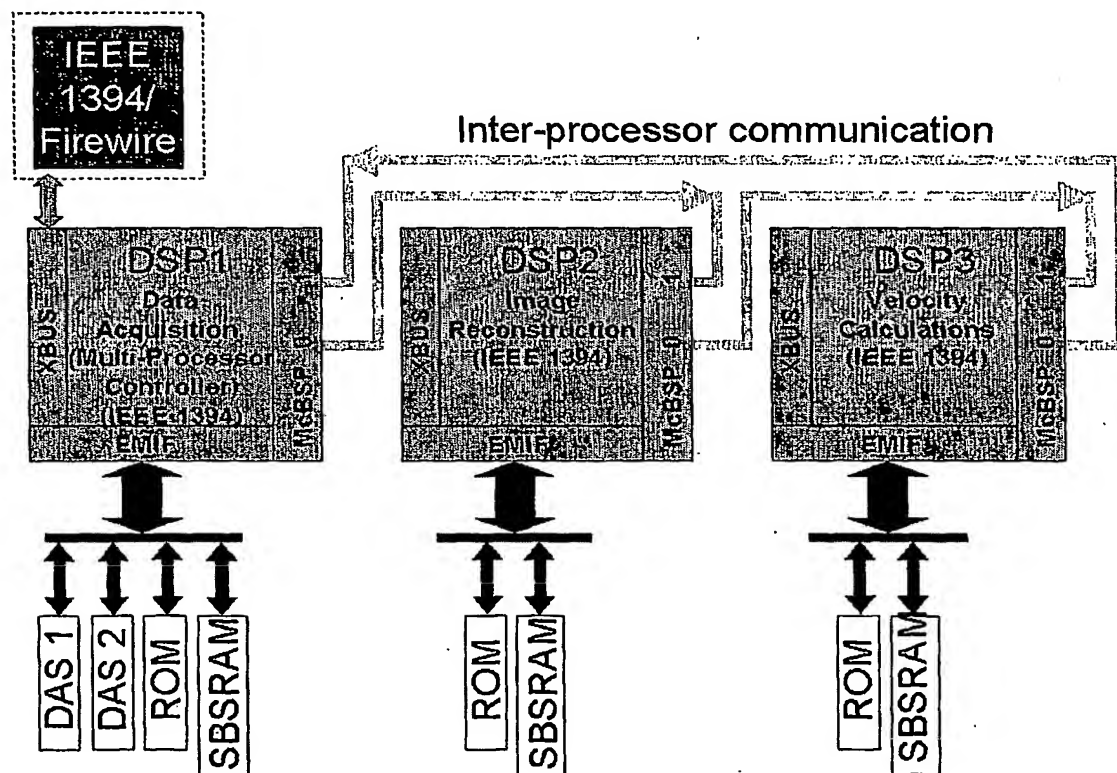


FIGURE 2

Rest Available Copy

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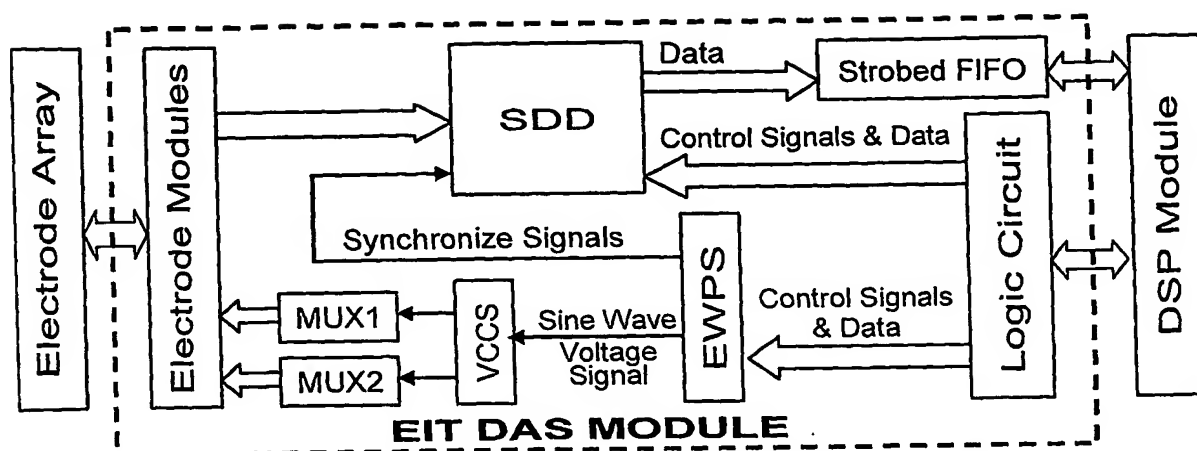
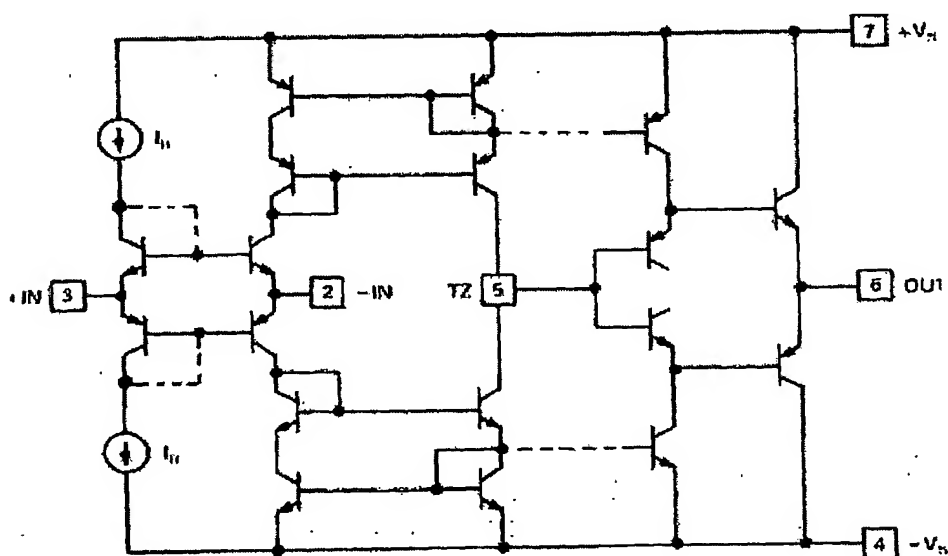
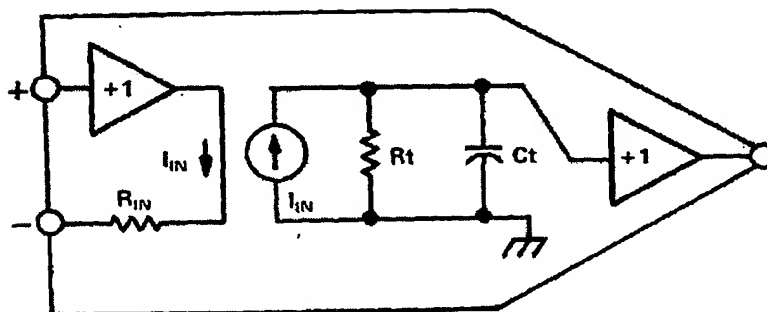


FIGURE 3



(a) Simplified Schematic



(b) Equivalent Schematic

FIGURE 4

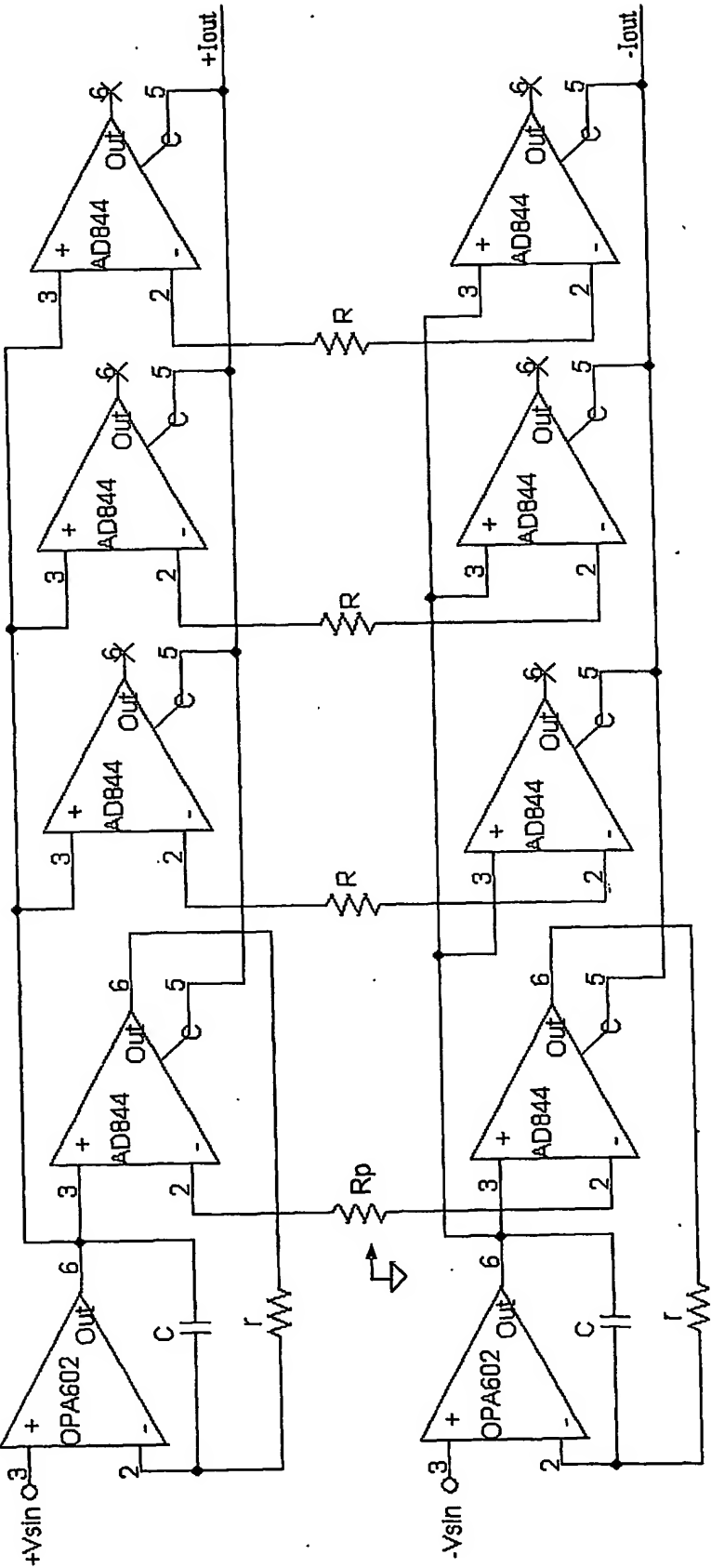


FIGURE 5

Rest Available Copy

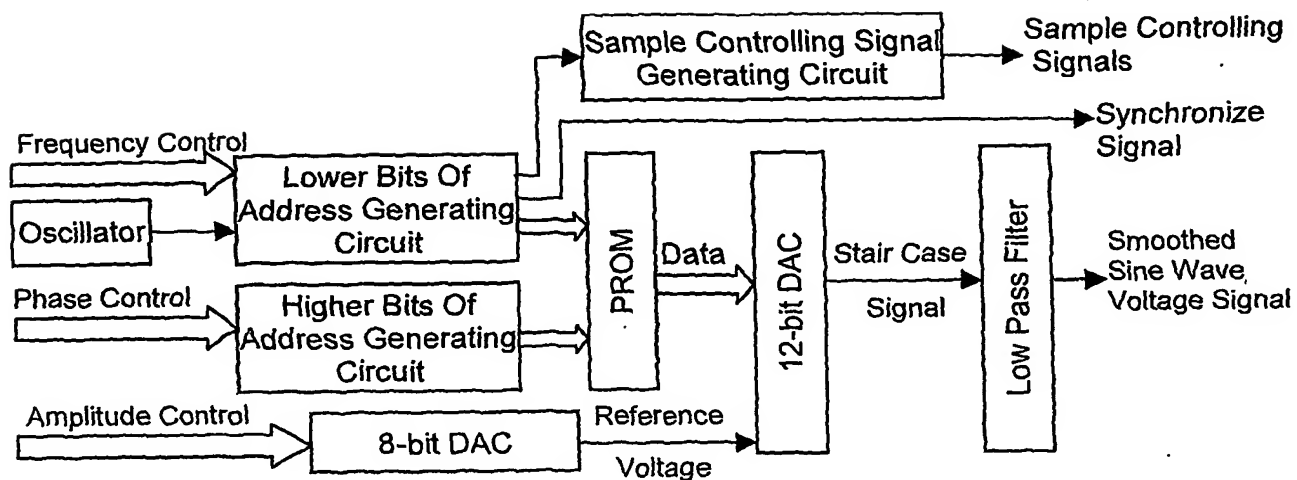


FIGURE 6

Equal width pulse sine-wave

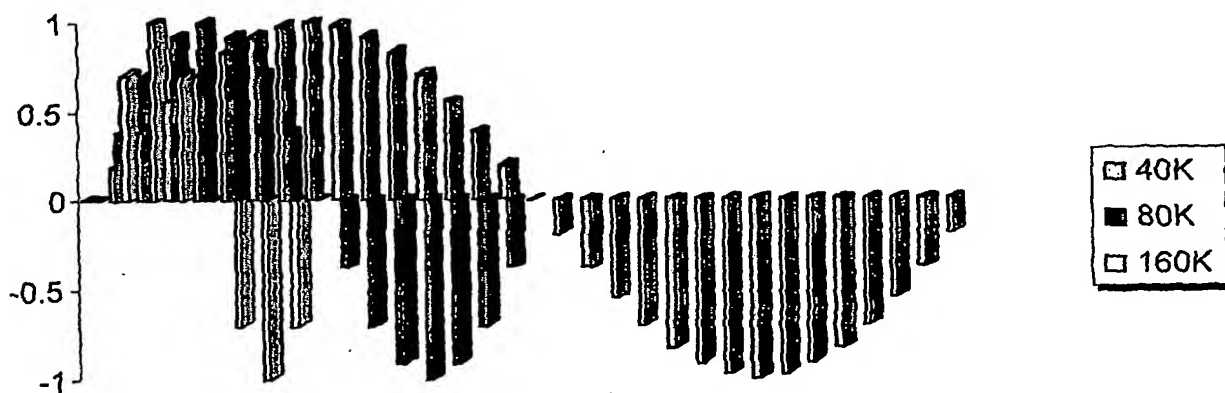


FIGURE 7

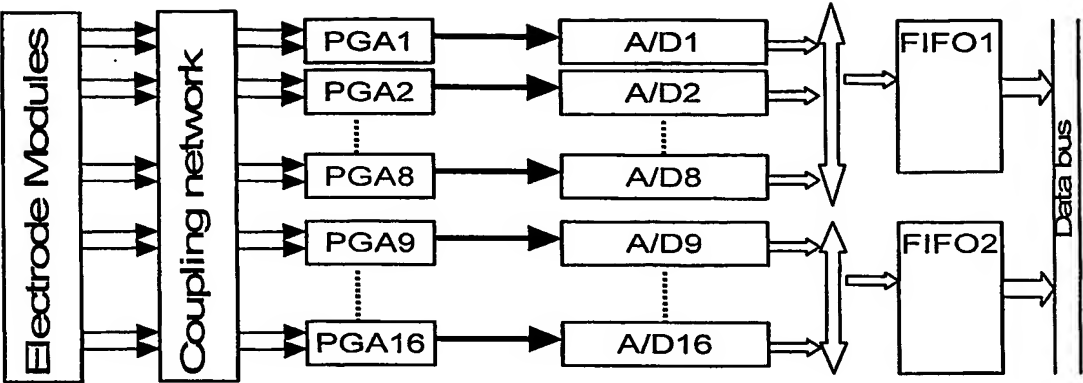


FIGURE 8

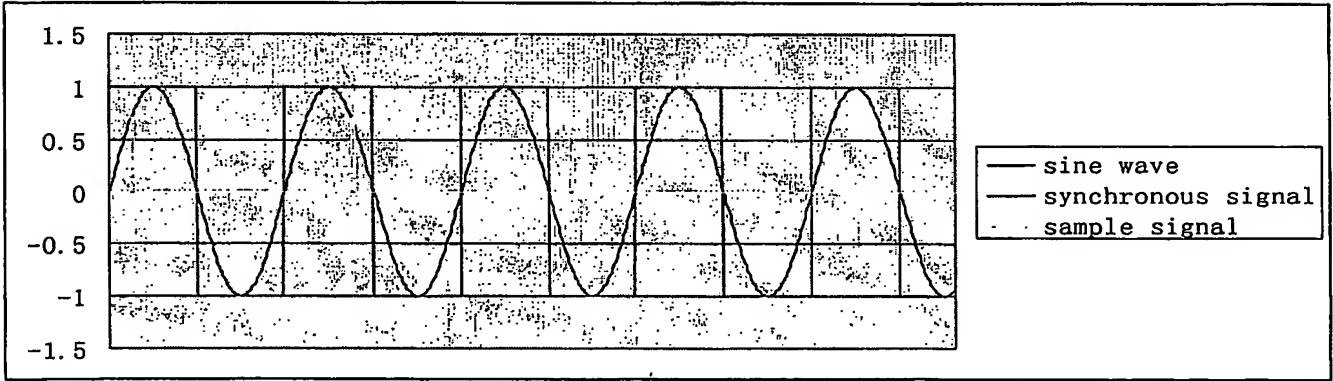
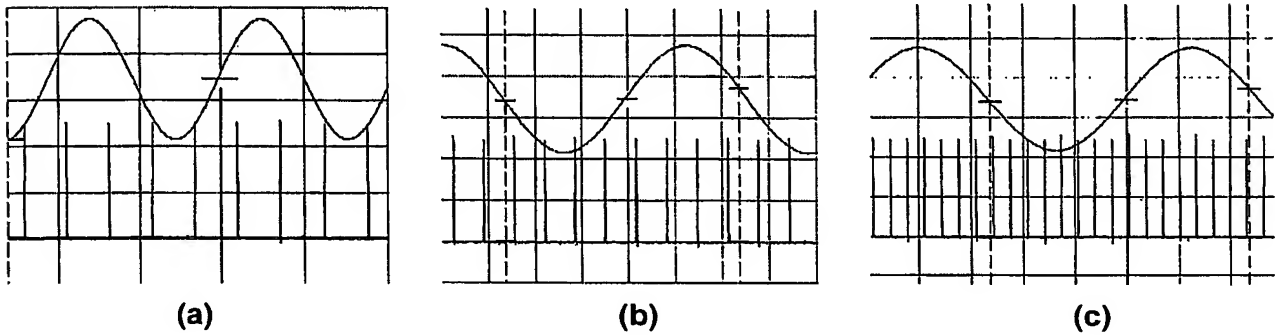


FIGURE 9

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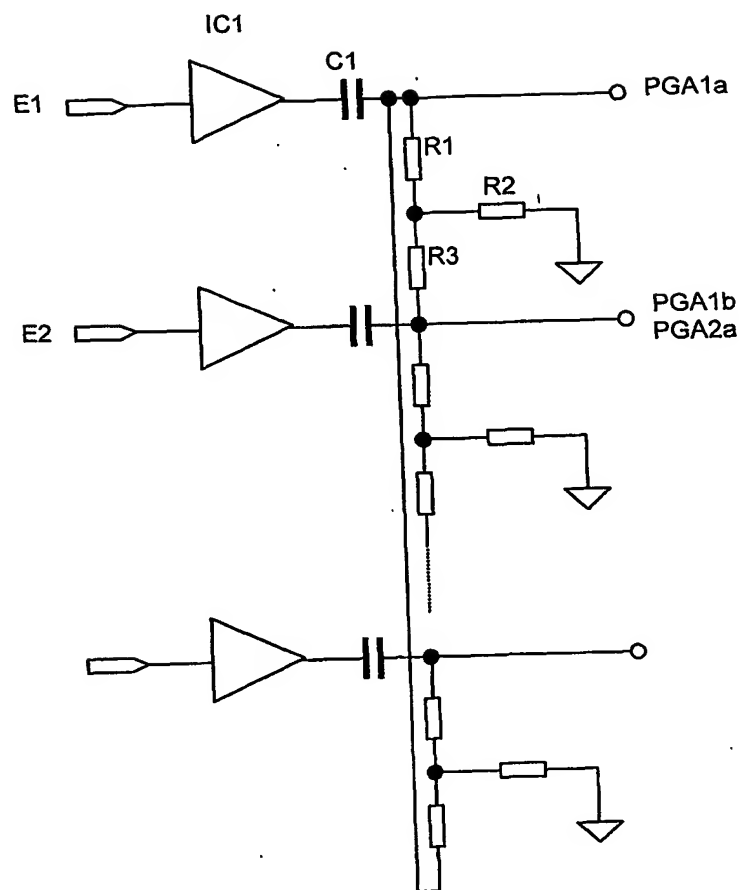


FIGURE 10

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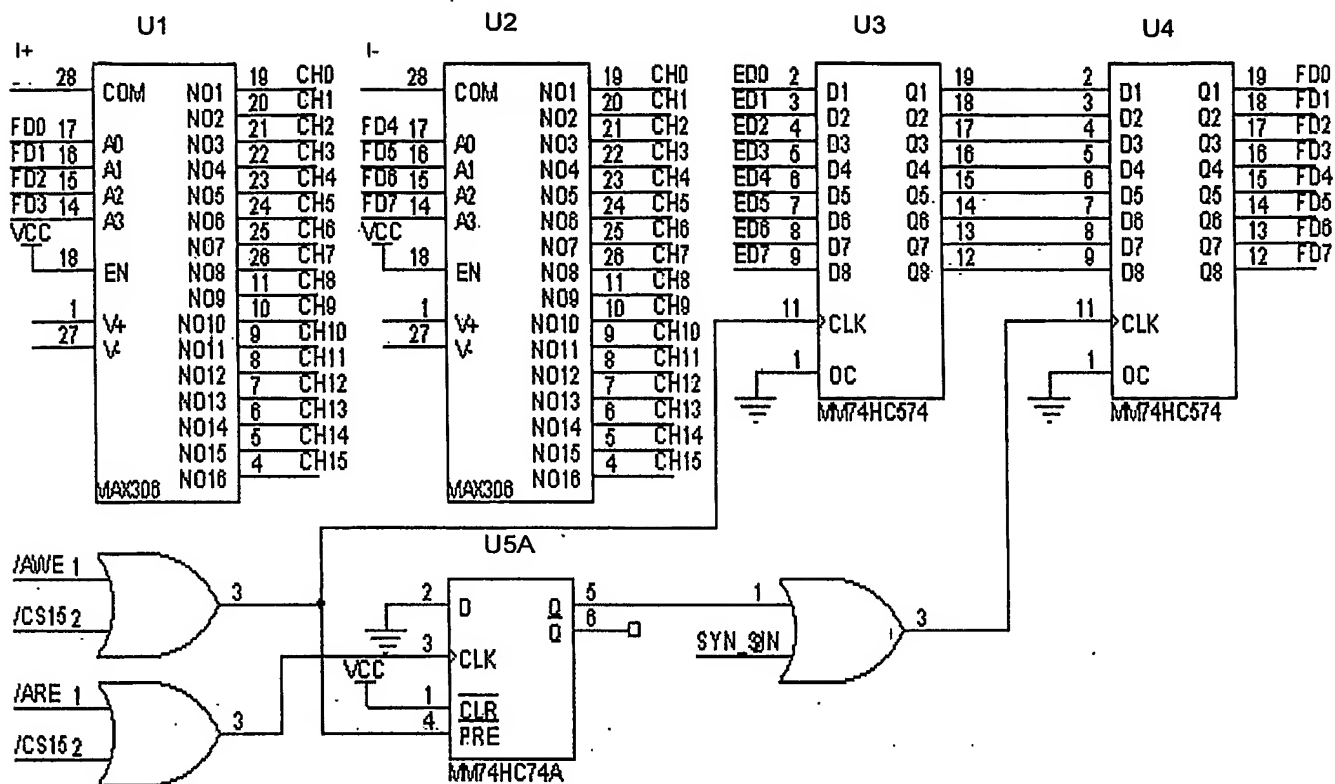


FIGURE 11

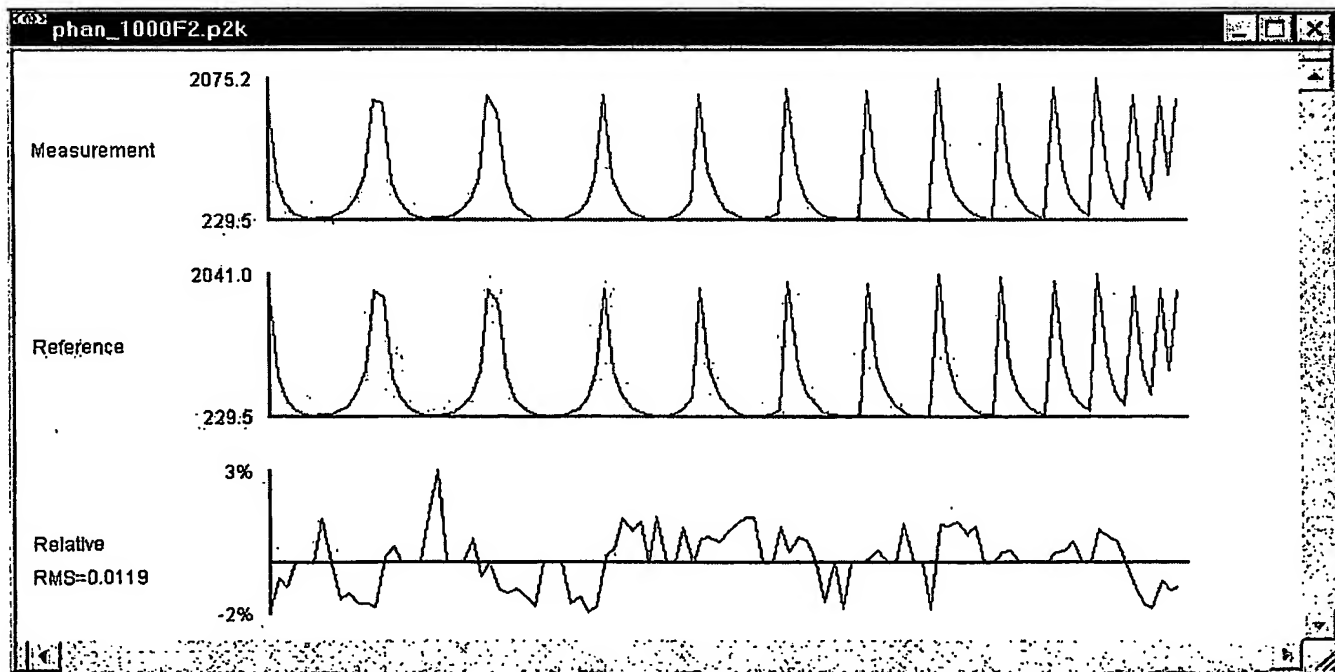


FIGURE 12

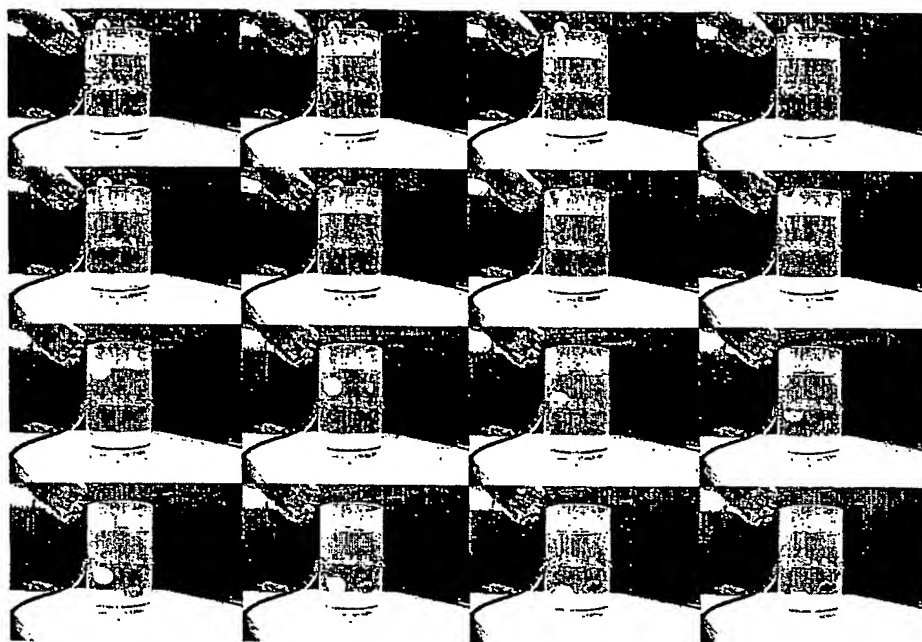


FIGURE 13



FIGURE 13b



FIGURE 13c

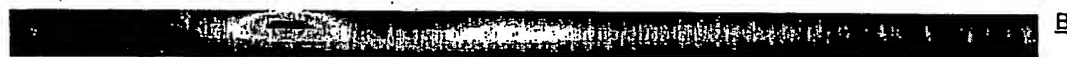


FIGURE 13d

Best Available Copy

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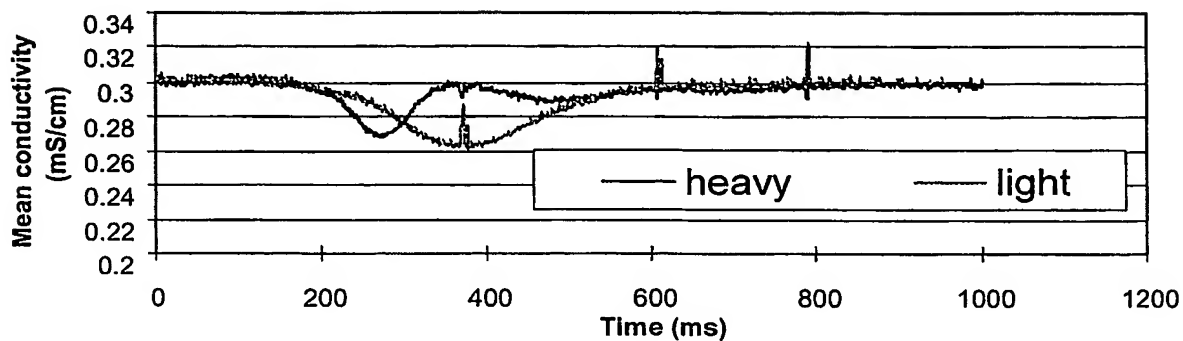
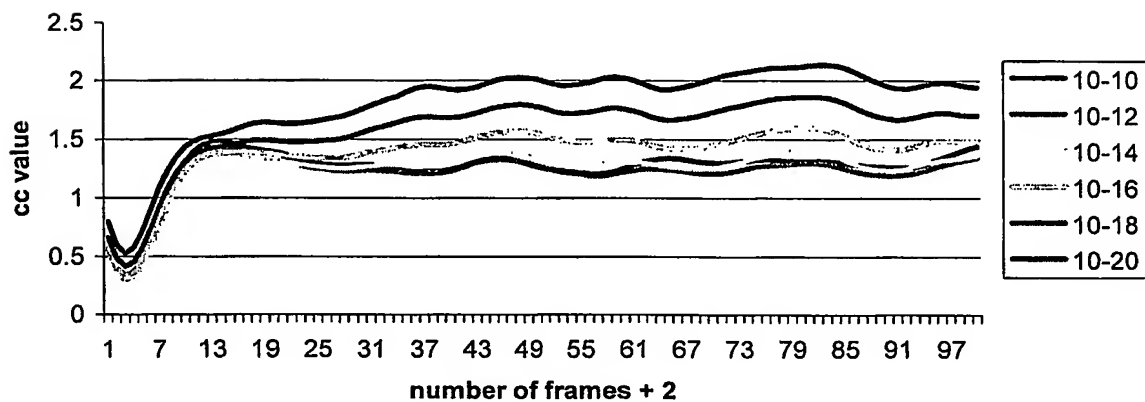


FIGURE 13e

cc curve - SH1

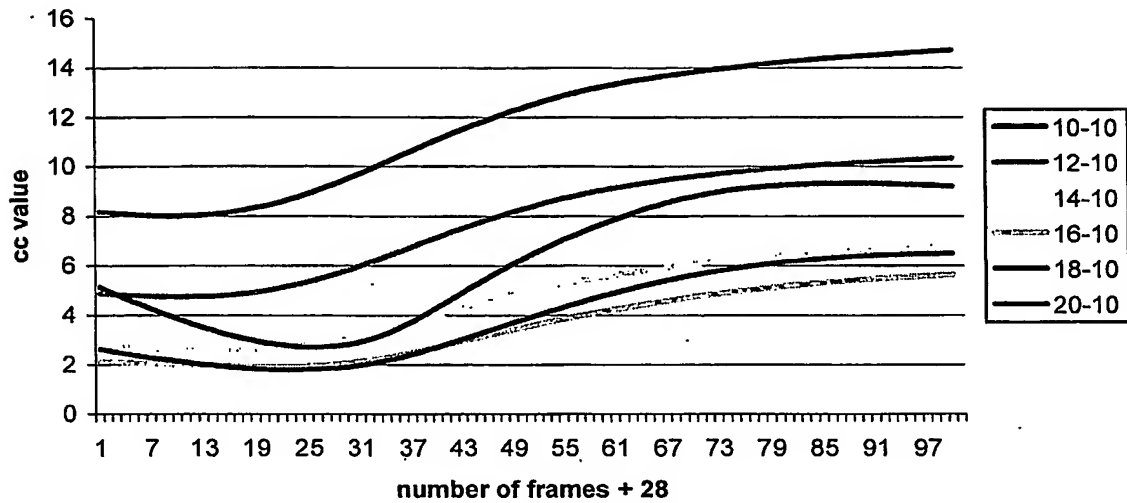


(a) Data collected from an air-water flow (SH1) at $f=134.2$ fps, $d=5$ cm

FIGURE 14(a)

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CC curve - m4



(b) Data collected from an oil-water flow (M4) at $f=914.3$ fps, $d=3$ cm.

FIGURE 14(b)

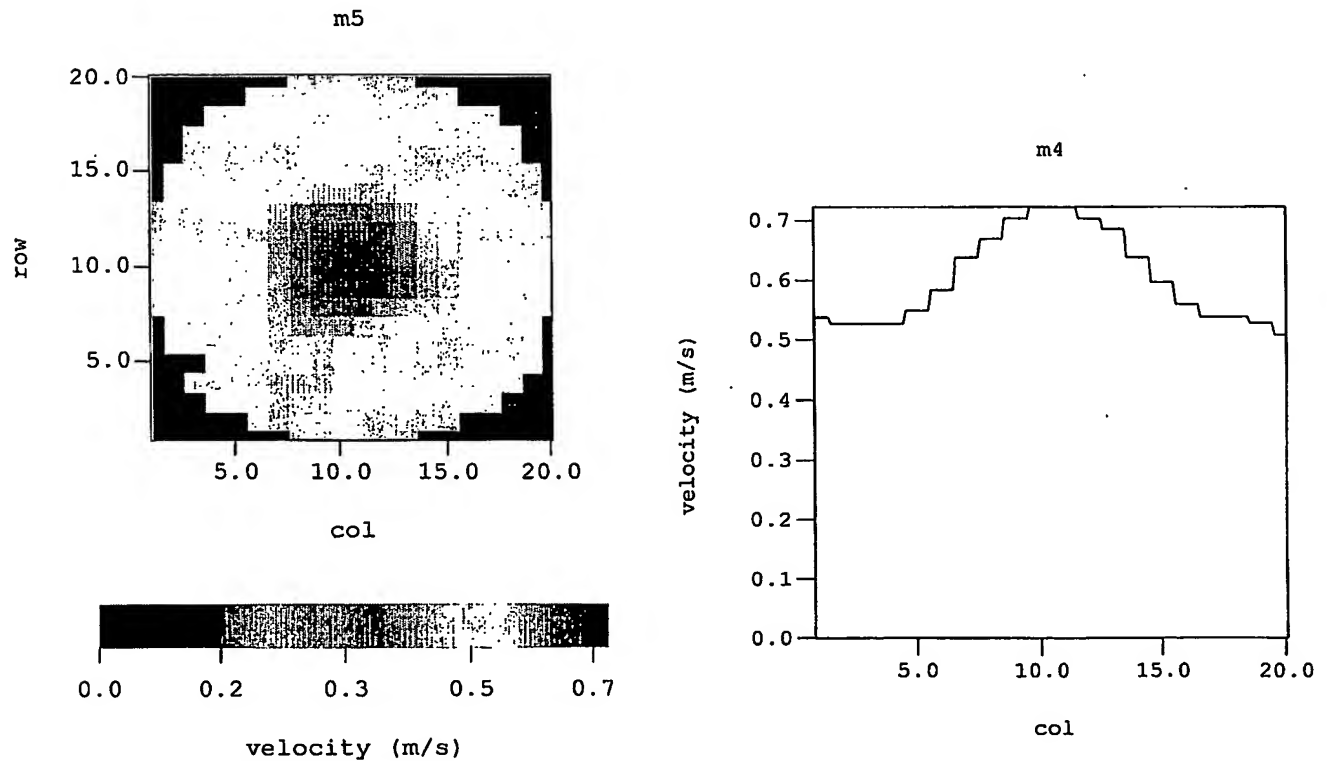


FIGURE 15

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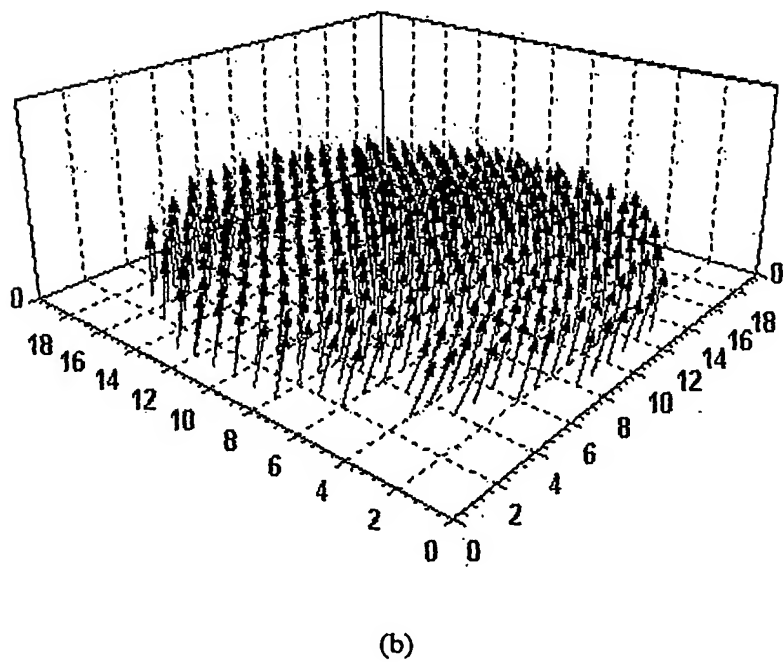
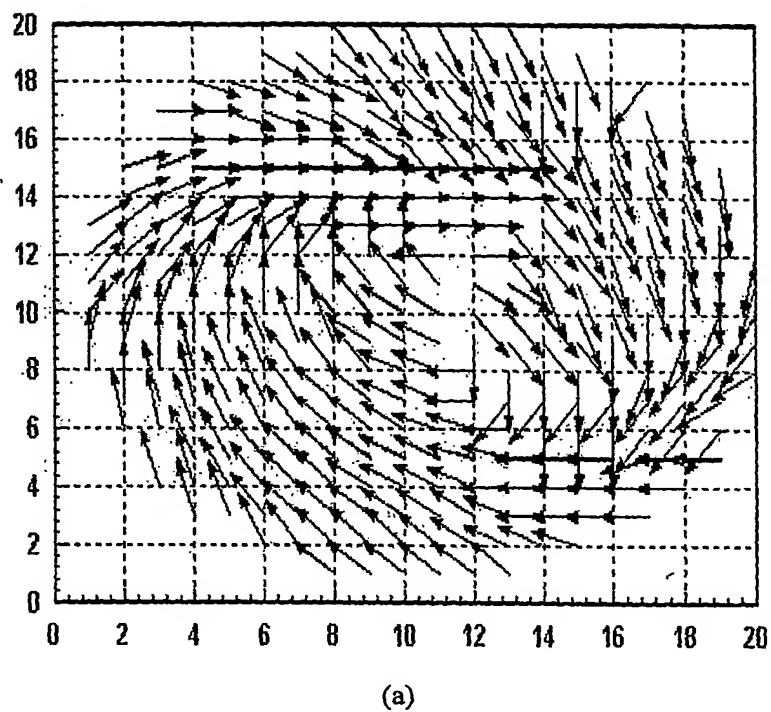


FIGURE 16